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1956
Armacost & Royston Inc.
West Los Angeles, Calif.

Arm Roy

Fine Orchids

I N D E X



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Now is the time . . .

Yes, now is the time to order that certain plant or plants you have always wanted for your collection.

We have made up this catalog in as simple a manner as possible so all may understand just what to expect as to size and quality of our plants, and the price. For more than forty years we have been breeding orchids to improve the strains. Therefore ARM-ROY efforts and knowledge have resulted in genuine hereditary improvements, making it possible to assure you stronger plants, free blooming, and bearing larger, longer-lasting flowers. ARM-ROY quality brings you more consistent flower production.

This background is of the utmost value to you. It is your assurance of a successful orchid growing effort, whether your project is for profit or pleasure.

You are welcome to inspect or select from our many greenhouses at any time. Our sales staff are all practical growers and they are always available to help you make the best possible selection.

Visiting hours: 8:30 to 12:00 — 1:00 to 4:00 daily, including Sundays.

Mail orders are given the same careful attention.

ARMACOST & ROYSTON, INC.
WEST LOS ANGELES 25, CALIFORNIA

The Cattleya Orchid . . .

The Cattleya is the original cultivated orchid . . . an exquisite flower of noble proportions with spectacular colors ranging from snowy whites to dazzling yellows, from rich apricots to intriguing bronze shades, from royal lavenders to striking scarlets. Endless color variations are available, all enchanting and dramatic.

We have forty-six greenhouses devoted to this genera for the production of seedlings and plants for sale as well as cut-flower production.

Some of the parent plants we use have been awarded a First Class Certificate or an Award of Merit by the Royal Horticultural Society. But though we have a large stock of awarded plants, and are constantly adding to them, they alone do not guarantee consistently good results, for it is a well established fact among breeders of long standing that such awarded plants do not always produce the best hybrids. Consequently, over the years we developed and proved a number of stud plants to a point where we know that they will produce the results we are after. By using our "private stud" plants, developed by generations of our own breeding, with the awarded plants, we have a combination that assures us the quality you and we want.

We now follow the procedure of making and offering only those crosses that we would wish to have in our own greenhouses for high quality cut-flower production and show purposes. Thus we are really offering to share a part of the plants we are growing for our own use. We believe these crosses represent the best obtainable today, and they will continue to meet the highest standards many years from now.



In addition to the general listing of crosses, we have many divisions of plants, selected when in bloom, of fine plants and plants reserved for stud purposes. These are available in limited quantities, but the list is too long to catalog. Kindly ask for any special needs and we will be glad to quote prices.

Community pot sizes are available upon request, though not catalogued.

INTRODUCTION

Owing to the difference in climatic conditions in various parts of the United States, it is impossible to give specific instructions for the successful culture of Cattleyas and allied hybrids such as Laelio-cattleyas, Brasso-cattleyas, or any other types of orchids for that matter. It is obvious that the same rules could not apply in the States of Oregon and Washington where humidity is usually high, and in the arid southern States such as Arizona. The following, therefore, are general rules that, if followed, will contribute to success in the culture of these plants. Orchids are not delicate plants, as is usually supposed, and will grow well if given ordinary care.

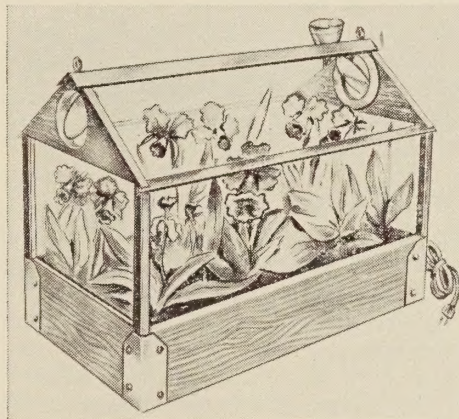
ENCLOSURE. The first question most people ask is what kind of enclosure do I need? Provide the kind of enclosure that you feel you can afford but remember that your collection will grow and it is cheaper to build a place large enough than it is to make additions afterwards. Choose a location as near as possible free from shade of your house and trees and those of your neighbors, for in such a location you will stand the best chance of providing the degree of shade that fits the growing methods you choose to employ. Provide a degree of shade that will be relaxing

without being depressing to the average human being. In cool, damp climates one may use more sunlight than in hot, dry ones. A good guide is the color of the leaves on your plants. If dark green, too much shade; if olive green, just right; if yellow green, too much light.

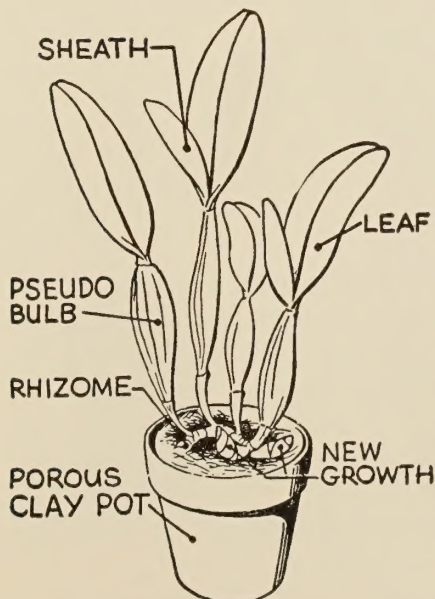
WARDIAN CASE. A wardian case is simply a glass box in which conditions of temperature and humidity can be controlled more easily than on the window sill or other outside location. These cases can be easily constructed by building a solid bottom of boards and four stationary sides and hinged lid of ordinary win-

dow sash, with a few holes bored in the bottom of the sash for ventilation. Place a metal container on the bottom for wet sand, gravel, or coke, arrange the plants on a rack over this container and they are ready to grow and bloom. The size of the case will have to be determined by the space available and where the plants can get the proper light.

WINDOW CULTURE. Choose a window exposed to considerable sunlight and provide thin curtains or other means of filtering the light so that the plants are not exposed to the full strength of direct sun rays. Place glass or metal vessels in the windows and put the plants on wire or wood-slat racks over these vessels. Gravel or charcoal should be placed in the vessels and kept moist at all times. Evaporation from these materials will provide humidity for the atmosphere. The root system is watered simply by pouring water on top of the pot until it drips at the bottom. An atomizer will supply a satisfactory spray for the leaves, or the plants may be taken to the kitchen sink and sprayed. Room temperature should be kept as nearly as possible between 65 and 75 degrees. Temperatures comfortable to humans are usually also comfortable to orchids.



PARTS OF THE PLANT AND THEIR FUNCTIONS



Roots: The function of the roots is to transmit moisture, minerals and other nutritional material from the growing medium (in most cases, osmunda fibre or osmundine) to the plant. Most of the roots penetrate the growing medium, but a few may grow over the edge of the pot.

Rhizome: A tough fibrous stem which joins the pseudobulbs to the roots. It rests on top of the growing medium.

Pseudobulb: The thick fleshy stem from which the leaf grows. Functions: to store moisture and energy for future use of plant.

Leaf: Serves purpose of all leaves, i.e. to convert air, water and minerals – in the presence of light – into sugars and other hydrocarbons.

“Eye”: Dormant growth at base of pseudobulb which will become active upon the next growing season of the plant.

Sheath: Formed at top of pseudobulb, it serves to protect the small buds until they have reached a size where they break through. From then on, they are usually hardy enough to withstand any adverse conditions they may encounter. Occasionally, a growth appears without a sheath, but buds may form anyway and develop into flowers.

CULTURAL SUGGESTIONS FOR CATTLEYAS

For many years those who grew Cattleyas thought or talked and wrote as if they thought that one must possess a number of special senses in order to even attempt the task of growing orchids. Now thousands of amateurs throughout the nation have thoroughly debunked this theory. Perhaps there was some excuse for the early growers forming this opinion when we consider the uniqueness and astounding beauty of orchids. So unique, so beautiful that the early growers could not quite consider them as plants in the normal sense and instead of employing the principles of culture of plants familiar to them they attempted to formulate a new set of procedures with little or no data to work on, became completely confused themselves, and confused everyone else. Amateurs have been successful in growing orchids in a wide variation of enclosures all the way from a glass box in the living room, an out-of-doors enclosure that was hardly big enough to turn around in to some quite spacious and artistically constructed greenhouses. First of all, remember that orchids are plants. Don't be afraid of them.

GREENHOUSE TEMPERATURE

The ideal temperature for Cattleyas in the greenhouse is about 84 degrees

mid-day on bright days in summer in most parts of the country, and about 63 degrees at night. These are safe temperatures for California throughout the year. In the Northern and Eastern States, winter temperature may range from 65 degrees to 75 degrees mid-day and in the low 50's at night. Some growers have good luck with even lower temperatures, and if you are one of them so much the better. The important thing to remember is that if the day temperature is low then that at night should be lower; if the day is warm then the night temperature should be up a little.

HUMIDITY. A good guide for humidity is that an orchid house should be comfortable to people all the time they are walking in it, but if one stands still for a few minutes, they should perspire a little. From 50 to 70% relative humidity in the daytime is desirable.

WATERING. The subject of when to water and when to withhold water from the growing media of orchid plants has been a much mooted question for many years gone by, and so the best that one could hope for in any set of cultural instructions would be to accomplish some alleviation of

the fear of attacking this task. The degree of dryness the growing media should reach before water is applied to it may be determined in many ways; by hefting the pot and determining the dryness by weight, or lifting it up completely and looking at the bottom of the pot. Be sure the media is thoroughly dry before watering and then water thoroughly. Be careful with large pots, 5½" and 6".

POTTING. Potting should be demonstrated. Our only advice is to pot your plants firmly and at the first sign of satisfaction that you have done a good job, leave it alone. We hear a lot about growing mixtures. No doubt they all have their merits, but we feel that osmunda is the safest and cheapest in the long run.

SPRAYING. A spraying program every month or so with one of the commercial orchid sprays will provide adequate pest control.

These instructions are basically for Cattleyas, but thousands of amateurs throughout the nation have demonstrated that *Cypripediums*, *Phalaenopsis*, *Dendrobiums* and other orchids, and other plants, will grow side by side under conditions similar to these described here.

HOW WE PRICE *Arm-Roy* CATTLEYA ORCHID PLANTS

Plants listed in the catalog are priced according to the size of pot A, B, C., and variety — out of flower. The newer crosses are listed in the smaller sizes while the older ones are shown in the larger sizes. Generally speaking, a plant will be mature enough to flower when it has reached 4" size.



A 1½"—2 years old B 3"—3-4 years old C 4"—5-7 years old

D back bulb division

LAVENDER CATTLEYAS

3264	C. REMY CHOLET (<i>C. Trianae</i> , <i>Imperator AM</i> x <i>C. Monarch</i>)	5"	\$15.00
	An improved form of a world famous hybrid in medium to deep lavender tones.	5½"	17.50
	A strong, free flowering strain to fill your winter and spring needs.	6"	20.00
3806	C. BONANZA (<i>C. Prospector</i> x <i>C. Athena</i>)	5"	\$15.00
	This cross has great possibilities as a winter bloomer.	5½"	17.50
		6"	20.00
3847	LC. ABIGAIL B. ANDERSON (<i>C. Peetersii</i> x <i>Lc. Princess Margaret</i>)	5"	\$15.00
	Parents involved in this cross are superb. Season so far seems to be fall.	5½"	17.50
		6"	20.00
3874	LC. INDRA (<i>Lc. Integrity</i> x <i>C. Prospector #1</i>)	5½"	\$22.50
	An outstanding Arm-Roy hybrid. The name suggests brilliant color and power, the lip is deep lavender richly veined with gold enhanced by a background of lighter lavender sepals and petals. Season winter. (See picture on cover.)	6"	25.00
		7"	30.00
4018	C. MIRAMAR (<i>C. Prospector</i> x <i>C. Santa Monica</i> , <i>Goliath</i>)	5"	\$17.50
	Here is a mating of two of the finest winter blooming Cattleyas we know. <i>C. Santa Monica</i> v. <i>Goliath</i> has tremendous substance and shape and <i>C. Prospector</i> is to our mind the most profitable cut-flower Cattleya yet raised. Rich yellow throat makes this flower eye catching.	5½"	20.00
		6"	22.50
4141	C. GERAINT (<i>C. Fabianid</i> x <i>C. Remy Cholet</i> v. <i>Vivicans</i>)	4½"	\$12.50
	As one would expect from the parentage the plant is a very easy grower of compact size bearing rich lavender flowers with an intense dark lip carried on a stem of above average length. <i>C. Geraint</i> definitely flowers on the high priced winter market.	5"	15.00
		5½"	17.50
		6"	20.00
4237	LC. ESCONDIDO (<i>Lc. Integrity</i> x <i>C. Enid</i> v. <i>Amazon</i>)	4"	\$12.50
	Flowers with medium lavender sepals and petals. Large, well formed, deep lavender, lip with broad yellow gold veins fusing to pale yellow, in the throat. Carried on stems of majestic proportions. Flowering season winter.	4½"	15.00
		5"	17.50
		5½"	20.00
		6"	22.50
4273	LC. LANCASTER (<i>Lc. Keokuk</i> v. <i>Red Chief</i> x <i>C. Remy Cholet</i>)	4"	\$10.00
	An excellent commercial type. Large dark lavender flowers with deeper lips, with varying degrees of yellow in the throat. Late winter and early spring.	4½"	12.50
		5"	15.00
4277	LC. MEM. WALTER ARMACOST (<i>Lc. Cuesta</i> , <i>Colossus</i> x <i>C. Tityus</i> , <i>Patriarch</i>)	4"	\$15.00
	The growth habit is robust yet compact. Large flowers of exceptional size, form, and substance with brilliant lavender sepals and petals. Rich frilled deeper lavender lip with pronounced yellow-gold veins. Season is mid-winter. Many of these have already won awards.	4½"	17.50
		5"	20.00
		5½"	22.50
4420	LC. CHISHOLM TRAIL (<i>Lc. Elissa</i> , <i>Gloriosa</i> x <i>C. Tityus</i> , <i>Patriarch</i>)	4"	\$15.00
	An excellent commercial flower. Dark colors with rich yellow veined throats. Season winter.	4½"	17.50
		5"	20.00
4439	BLC. VALDA CRUZ (<i>Lc. Integrity</i> x <i>Bc. Hartland</i>)	3½"	\$10.00
	Many fine specimens resulted from the mating of these famous hybrids, with intense colors prevailing. Season mostly winter but variable. Quantity limited.	4"	12.50
		4½"	15.00
		5"	17.50
4536	LC. FRED B. CASTATOR (<i>Lc. Dorothy Fried</i> x <i>C. Ardentissima</i> , <i>Colossus</i>)	4"	\$12.50
	A late summer and early fall bloomer. Graceful long stems and exquisite dark flower with rich gold markings predominate.	4½"	15.00
		5"	17.50
4572	C. FABIANID (<i>C. Enid</i> , <i>fine</i> x <i>C. Fabia</i> , <i>W'birt</i> var.)	4"	\$10.00
	This is a remake of an old favorite well known for its vigor and free growing qualities. The flowers are medium lavender tones with a rich <i>Fabia</i> -like lip. Season late summer and fall.	4½"	12.50
		5"	15.00
4575	LC. BAGDAD (<i>Lc. Morvyth Magnifica</i> x <i>C. Peetersii</i> , <i>very fine</i>)	4"	\$12.50
	Those that we have flowered have all been dark lavender resembling <i>Lc. Morvyth</i> in shape and size. Season fall.	4½"	15.00
		5"	17.50

LAVENDER CATTLEYS (Cont.)

4610	LC. DERRYNAME (Lc. Princess Margaret x Lc. Balkis)	4"	\$12.50
	A remake of an old favorite. Sepals and petals medium to dark lavender. Darker lip with gold veining in throat. Very good shape and substance. Season fall.	4 1/2"	15.00
4658	C. FAMOSA (C. Remy Cholet x C. Tityus, Patriarch)	4"	\$10.00
	We are proud to present this re-creation of a truly wonderful Arm-Roy origination, exquisitely formed sponsoring lavender, purple and gold in lavish perfection for the winter and spring cut-flower market.	4 1/2"	12.50
		5"	15.00
		5 1/2"	17.50
4716	LC. HELEN VELIZ (Lc. Dorothy Fried x C. Enid, very fine)	4"	\$12.50
	The Arm-Roy strain of C. Enid contributed largely to the fame of our organization. Its combination with the spectacular Arm-Roy creation Lc. Dorothy Fried is indeed a happy one. Flowering results exceptionally fine.	4 1/2"	15.00
		5"	17.50
4723	LC. MRS. HAROLD LLOYD X C. DUPREANA	3"	\$ 5.00
	This cross should produce fine forms of lavender flowers for the spring and summer season.	3 1/2"	7.50
4724	LC. LAKE LOUISE (Lc. Prosperity x C. Enid)	4"	\$12.50
	Resembles Lc. Prosperity. Medium lavender sepals and petals. Two gold eyes in throat. Good size and substance. Season variable.	4 1/2"	15.00
		5"	17.50
4759	LC. BALKIS, FINE VAR. X LC. WINDERMERE, ESTELLE	3"	\$ 7.50
	The Lc. Balkis used in this cross was very good. The merits of Lc. Windermere v. Estelle are well known. The flower is extremely large, profuse with gold markings in the throat. Season winter.	3 1/2"	10.00
		4"	12.50
		4 1/2"	15.00
		5"	17.50
4771	LC. ALLAN-A-DALE (Lc. Integrity, Steadfast x Lc. Savitar)	3"	\$ 7.50
	We have flowered a few of this cross and the sepals and petals are a rich lavender. Darker lip with a rich golden throat. Some are of award quality. Shows great promise. Season seems to be winter.	3 1/2"	10.00
		4"	12.50
		4 1/2"	15.00
		5"	17.50
		5 1/2"	20.00
		6"	22.50
4788	C. TRIDENT, ATLAS X LC. MARDUK	3"	\$ 7.50
	The C. Trident employed in this cross was of exceptional deep lavender, form and substance of almost unbelievable quality. Late winter and spring bloomer.	3 1/2"	10.00
		4"	12.50
		4 1/2"	15.00
		5"	17.50
		5 1/2"	20.00
		6"	22.50
4789	C. DUPREANA X LC. MARDUK	3"	\$ 7.50
	Darker flowers of improved form. Flowering season earlier than C. Dupreana.	3 1/2"	10.00
		4"	12.50
4797	C. DUPREANA X C. ENKIDU GORDICIMO	3 1/2"	\$10.00
	Gordicimo is a Spanish word meaning fatness. The Enkidu in this cross is certainly that, plus form and color. Season more than once a year with tendency to be mid-winter and spring.	4"	12.50
4805	C. DUPREANA X C. DUPREANA	3 1/2"	\$10.00
	The fame of this hybrid is widely known. We used two of our best in this combination. Our strain is larger and darker than most. Season spring.	4"	12.50
4815	LC. ELISSA, PIEDMONT X C. DUPREANA, CENTAUR	3"	\$ 7.50
	This cross is a worth-while addition to any collection. Darker than C. Dupreana. For winter and spring season.	3 1/2"	10.00
		4"	12.50
4859	LC. BOADICIA, REGINA X LC. SAVITAR, SYMMETRY	3"	\$ 7.50
	Regal carriage and form are reflected here in brilliant lavenders. The rich gold markings of lip fuse high in the throat to refreshing yellow. Season late winter and spring.	3 1/2"	10.00

LAVENDER CATTLEYS (Cont.)

4862	C. TETHYS (C. Annie J. Lines x C. Ardentissima, Colossal)	3"	\$ 7.50
	We are happy to present this remake of one of our most popular Arm-Roy hybrids.	3 1/2"	10.00
	The intense lavender form and production are a buy-word wherever "Orchid people" meet. The season is fall.	4"	12.50
4863	LC. PARADISIO X LC. INTEGRITY, FINE	3"	\$ 7.50
	Lc. Paradisio just loves to grow and produce an abundance of flowers in medium	3 1/2"	10.00
	shades of lavender of exceptional forms and substance. Lc. Integrity has these	4"	12.50
	desirable characteristics plus rich gold veining in the lip. Season is spring.	4 1/2"	15.00
		5"	17.50
		5 1/2"	20.00
		6"	22.50
4864	LC. PARADISIO X C. PROSPECTOR, WESTERN HORIZON	3"	\$ 7.50
	When C. Prospector finds the right mate, the growth habit is a delight to the eye	3 1/2"	10.00
	of the "Orchidist." This truly is a happy combination. Rich lavender flowers,	4"	12.50
	deeper colored lips with yellow gold marking. Season winter.	4 1/2"	15.00
		5"	17.50
		5 1/2"	20.00
		6"	22.50
4871	LC. INTEGRITY, REWARD X LC. INTEGRITY	3"	\$ 7.50
	The best description for number 4871 that we can think of is to say it is an ideal	3 1/2"	10.00
	subject in lavender and gold. Season winter and spring.	4"	12.50
4879	C. REMY CHOLET, ORIG. X LC. SAVITAR, HERCULES	3"	\$ 7.50
	Both parents are famous for their character and production. We will just say	3 1/2"	10.00
	superb flowers in rich lavender replete with rich gold veining in the throat. Season	4"	12.50
	mid-winter.	4 1/2"	15.00
		5"	17.50
4880	C. ENID #2828 X LC. PARADISIO	4"	\$12.50
	Our Enid 2828 has C. Mossiae var. Countess Grey on the sire side. Those who are	4 1/2"	15.00
	familiar with the exceptional qualities of this clone will be impatient to see its	5"	17.50
	influence on a second generation hybrid. Lc. Paradisio has tremendous size, char-		
	acter and production. Season variable but more than once a year.		
4920	LC. CUESTA X LC. INTEGRITY, SUNRISE	2 1/2"	\$ 5.00
	The Lc. Cuesta used provides deeper color to the majestic form of Lc. Integrity.	3"	7.50
	Winter flowers in purple and gold.	3 1/2"	10.00
4941	LC. INTEGRITY X LC. CUESTA, CALCUTTA	2 1/2"	\$ 5.00
	A second generation Arm-Roy hybrid of which we are justly proud. Grandeur,	3"	7.50
	symmetry, regal color for the mid-winter season.		
4974	C. PROSPECTOR, ROTUNDA X LC. MARDUK	1 1/2"	\$ 1.75
	Two famous Arm-Roy hybrids combined to give brilliant flowers of award quality	2"	3.50
	for mid-winter.		
4975	LC. TAHOE X C. PEETERSII	1 1/2"	\$ 1.75
	The C. Peetersii used in this combination has tremendous exhibition quality intense	2"	3.50
	lavender purple flowers. The contribution of the majestic qualities of Lc. Tahoe		
	assures mid-winter flowers.		
A-51	C. LABIATA X C. ANN SANDER, BUXOM	1 1/2"	\$ 1.75
	The introduction of C. Labiata blood should add freedom of growth to the many		
	good qualities of Ann Sander and should produce rich lavender flowers for the		
	fall season.		
A-55	C. TETHYS X C. FABIA V. MIDNIGHT	1 1/2"	\$ 1.75
	Rich dark lavender with gold veining in throat. Season is fall. Limited quantity.		
A-73	C. TETHYS X C. CUESTA V. MIDNIGHT	1 1/2"	\$ 1.75
	Dark lavender sepals and petals. Deeper lavender lip with yellow to golden		
	veining in throat. Large flowers of good form and substance. Late fall.		

LAVENDER CATTLEYS (Cont.)

A-149	C. GAMUT X C. MT. ROYAL V. SYMMETRY	1½"	\$ 1.75
	Medium lavender sepals and petals. Darker lip with golden throat. Large well formed flowers on long stems. Season late fall to winter. Limited quantity.		
A-187	C. J. A. CARBONE (<i>C. Mossiae</i> x <i>C. Prospector</i> v. <i>Rotunda</i>)	1½"	\$ 1.75
	This is a remake of this fine spring flowering cross, but using a much finer <i>C. Mossiae</i> with a great deal of vigor and heavy texture. It will surpass our previous fine strain of <i>C. J. A. Carbone</i> .		
A-201	C. NEBONAIR X C. NEBO	1½"	\$ 1.75
	This is a recombination of <i>C. Nebo</i> blood lines for the Christmas season. The <i>C. Nebonair</i> was of fine shape and substance and we expect an exceptionally prolific bloomer for December.		

CATTLEYS - ALBAS WHITE SEPALS AND PETALS. COLORED LIP

3846	LC. PARIZADE (<i>C. Luegeae alba</i> x <i>Lc. Hassallii alba</i>)	5"	\$17.50
	One of our fine dependable albas with size and good colored lips. Season summer and fall.	5½"	20.00
		6"	22.50
3931	C. ALICE BELDING (<i>C. Mary Chilton alba</i> x <i>C. Vivian alba</i>)	5"	\$15.00
	A clear white with bright solid purple lip. Predominantly summer. Resembles <i>C. Gigas</i> F.M.B.	5½"	17.50
		6"	20.00
4043	C. HURON (<i>C. Mossiae Reineckiana</i> x <i>C. Nutley alba</i>)	5"	\$17.50
	Compact, free growing alba. Of pleasing size and shape, the lip is reminiscent of a very fine form of <i>Reineckiana</i> . Season should be winter and spring but variable.	5½"	20.00
		6"	22.50
4052	C. EMPRESS FREDERICK ALBA (<i>C. Mossiae Reineckiana</i> x <i>C. Dowiana Aurea</i>)	5"	\$12.50
	The breeding of the finest <i>Mossiae Reineckiana</i> we know of to a very fine <i>Dowiana aurea</i> should provide an exceedingly fine alba form of this well known Cattleya.	5½"	15.00
		6"	17.50
4078	LC. NEVADA (<i>Lc. Peter the Great</i> x <i>C. Enid alba</i>)	5"	\$15.00
	<i>Lc. Peter the Great</i> is probably the freest flowering alba in existence. The fine <i>C. Enid alba</i> used in this cross adds size and form. Season variable.	5½"	17.50
		6"	20.00
4394	C. PEETERSII ALBA X C. LUEGEAE ALBA	4"	\$10.00
	A fall blooming alba of good size and substance. Free flowering.	4½"	12.50

CATTLEYS — Pure White

3921	C. MT. SHASTA (<i>C. Estelle alba</i> , very fine var. x <i>C. Bebe White</i>)	5"	\$17.50
	This cross has fully lived up to our expectations. It is large, has good substance and texture. Winter and early spring flowering.	5½"	20.00
		6"	22.50
3922	C. WHITE SAIL (<i>C. Olive Pierson</i> x <i>C. Bebe White</i>)	5"	\$17.50
	This cross is large. Clean, solid white with much less yellow in the throat than the average white.	5½"	20.00
		6"	22.50
4026	C. EDITHIAE (<i>C. Suzanne Hye alba</i> x <i>C. Trianae alba</i> , Bromhill)	5"	\$15.00
	It may be possible to make <i>C. Edithiae</i> with finer parents but we doubt it. The plants offered are extremely well bred and, of course, <i>C. Edithiae</i> is a fine winter pure white Cattleya of fine quality.	5½"	17.50
		6"	20.00
4027	C. MT. RAINIER (<i>C. Estelle alba</i> x <i>C. Trianae alba</i> , Bromhill)	5"	\$15.00
	Free growing white with yellow in the throat. Winter blooming.	5½"	17.50
		6"	20.00
4390	C. RAMONA (<i>C. White Cloud</i> v. <i>Majestic</i> x <i>C. Clementin Goldfarb</i>)	4"	\$12.50
	A most worth-while pure white. Flowers in the fall when pure white orchids are much wanted.	4½"	15.00
		5"	17.50
		5½"	20.00
		6"	22.50

CATTLEYAS — Pure White (Cont.)

4683	C. MOSSIAE WAGNERI X C. MOSSIAE WAGNERI	4"	\$10.00
	The value of this famous pure white Cattleya will remain a tradition in the Orchid world long after many great varieties are forgotten. Season May and June.	4½"	12.50
4761	C. BARBARA BILLINGSLEY #1 X C. ESTELLE ALBA, CYNOSURE	3"	\$ 7.50
	Beautiful pure white flower with rich gold flush high in the throat. The habit will be free flowering and easy to build into specimen plants. Season is fall and winter.	3½"	10.00
		4"	12.50
		4½"	15.00
		5"	17.50
A-190	C. ARCTIC SNOW (<i>C. Estelle Alba</i> x <i>C. Souvenir de Louis Sander</i>)	1½"	\$ 1.75
	This is a remake of this cross using the identical parents. It has proven to be one of the most prolific pure white Cattleyas we have ever seen. A marvelous grower flowering during the Easter season.	2"	3.50

CATTLEYAS — Brassolaeliocattleya Types and Yellows

3832	LC. LOS ANGELES (<i>Lc. S. J. Bracey</i> x <i>Lc. Golden West</i>)	5"	\$17.50
	Another yellow hybrid with some very pleasing color tones. Great interest has been shown in this cross.	5½"	20.00
		6"	22.50
4124	LC. SANDRA OZZELLA (<i>Lc. S. J. Bracey</i> x <i>C. Dowiana Aurea</i>)	4½"	\$15.00
	We recommend this as a most interesting hybrid from <i>Lc. S. J. Bracey</i> , producing flowers from green-yellow to deep bronze with red lips. Quantity limited.	5"	17.50
		5½"	20.00
		6"	22.50
4145	BLC. CHICKASHA (<i>Lc. Pasadena</i> x <i>Blc. J. K. Lilly</i>)	4½"	\$12.50
	<i>Pasadena</i> is a hybrid from <i>Lustre</i> and <i>Trianae</i> ; <i>J. K. Lilly</i> , from <i>Titymoma</i> v. <i>Round-head</i> . Color in both parents and outstanding vigor in <i>Pasadena</i> . A hybrid to bank on.	5"	15.00
		5½"	17.50
		6"	20.00
4205	BLC. NACOUCHEE (<i>C. Estelle Alba</i> x [<i>Blc. Snowdon</i> x <i>Bc. Heatonensis</i>])	5"	\$17.50
	This produces a <i>Brassocattleya</i> blooming in the wintertime. With enough of the <i>Brassocattleya</i> left to give large, beautiful lips. <i>Estelle</i> supplying substance and shape. Colors, pastel shades. Several plants from this cross have won awards.	5½"	20.00
		6"	22.50
4426	C. ESTELLE ALBA, CYNOSURE X BLC. MERU	4"	\$12.50
	Here is another good one. The color range is pastel to warm shades of lavender pink. Season variable and more than once a year. Quantity limited.	4½"	15.00
		5"	17.50
4449	LC. PINO GRANDE (<i>Bc. Warnham Beauty</i> x <i>Lc. Hyperion</i>)	4½"	\$15.00
	A beautiful <i>Brasso</i> with rich color, substance, size, and form. Season variable but more than once a year. Quantity limited.	5"	17.50
4595	LC. VIVIAN BONER (<i>C. Maggie Raphael Alba</i> , <i>Lady Love</i> x <i>Lc. Metacom</i>)	4"	\$12.50
	Color bronze yellows, overflushed with variegating shades of lavender. Season variable. Fall and winter. Quantity limited.	4½"	15.00
		5"	17.50
4627	BC. WARNHAM BEAUTY X C. SERENITY, JUNO	4"	\$12.50
	We are a little prejudiced against <i>Brassos</i> , but here, we must grudgingly admit, is a good one. Rich color and form. Season variable, but more than once a year.	4½"	15.00
4735	LC. MARAVILLA (<i>Lc. Gatton Glory</i> x <i>Lc. Massasoit</i>)	3"	\$ 7.50
	The <i>Lc. Massasoit</i> used here was of excellent form, dark lavender with bronze overflush. Combined with the famous yellow <i>Lc. Gatton Glory</i> , a batch of these in flower will compose a symphony in reddish purple gold. Season variable, mostly summer and fall. Quantity limited.	3½"	10.00
		4"	12.50
4912	SLC. AUTUMN DELIGHT (<i>Lc. S. J. Bracey</i> , <i>Lodestar</i> x <i>Slc. Anzac</i> , <i>Orchidhurst</i>)	2"	\$ 3.50
	We have flowered a few of this cross and so far they resemble <i>Slc. Anzac</i> . However, some are bronze to rich sunset hues. Season fall and winter.	2½"	5.00
		3"	7.50
		3½"	10.00
A-1	C. PROBITY X BLC. JOYANCE	1½"	\$ 1.75
	Both parents are famous <i>Arm-Roy</i> creations. We chose two of the best which produce good yellows of exceptional quality for the fall.	2"	3.50

CATTLEYAS — Brassolaeliocattleya Types and Yellows (Cont.)

A-2	BLC. JOYANCE X C. DOWIANA AUREA	1½"	\$ 1.75
	Blc. Joyance has yellow tones with reddish lavender lip. Yellows of increased size and symmetry. Fall season.	2"	3.50
A-111	C. TRIUMPHANS X BLC. JOYANCE	1½"	\$ 1.75
	Should produce flowers from greenish-yellow to deep bronze with red lips. Summer.		
A-143	LC. S. J. BRACEY V. LODESTAR X LC. WINEMA ALBA	1½"	\$ 1.75
	Should be bronze to yellow sepals and petals with dark lavender lip. Season late summer to fall.		
A-147	C. DOUSABEL X BLC. JOYANCE	1½"	\$ 1.75
	We are frank to say that this is highly speculative. C. Dousabel should improve the shape of Blc. Joyance. Color bronze to yellow shades with red lip. Summer.		

BIFOLIATE TYPE ORCHIDS

A-211	C. PORCIA (<i>C. Labiata</i> v. <i>Mayflower</i> x <i>C. Armstrongiae</i>)	1½"	\$ 1.75
	A remake of an old time favorite of the small cluster type, bearing up to fifteen or more flowers on long sturdy stems. Bright lavender with gold throat. Season fall.		
A-221	C. PORTIA (<i>C. Bowringiana</i> x <i>C. Labiata</i> v. <i>Thanksgiving</i>)	1½"	\$ 1.75
	Another old time favorite similar to A-211. Flowers are somewhat larger and darker with less yellow in the throat. Season fall.		
	Mature Divisions of C. Porcia and C. Portia are available.		
	Regular stock — 2 bulb plants — Per plant		\$25.00
	Varietal named — 2 bulb plants — Per plant		35.00
	Larger plants. Prices on request.		
A-37	C. SNOW SONG X C. VESPER	1½"	\$ 1.75
	A medium size white of the cluster type. Some gold in throat. Season should be winter.		
A-39	C. HENRIETTA JAPHET X C. SNOW SONG	1½"	\$ 1.75
	Similar to A-37 but somewhat larger flowers. Should be more prolific. Season winter.		



C. PORTIA (Bifoliate Type Orchid)

The *Cypripedium* Orchid...

The *Cypripedium* is considered the easiest orchid to grow. This lovely orchid takes its name from the Greek, meaning "Venus-slipper." All of its species can be identified by the pouch, or slipper-like lip of the flower. Many wild types, commonly known as "lady-slippers" are found in our woods and fields, but the cultivated varieties are sturdier, much larger and more dramatic. Flowers are long lasting. Colors in this orchid are breathtaking, varying from white through butter-yellow to deep purple-browns. The remarkable variations of markings make this an ever-interesting, ever-popular plant. Principal blooming seasons are Fall and Winter.

If you could step into a house full of these lovely and charming slipper orchids with their individual variations, you, too, would want to own a few plants.

Cypripedium prices quoted in our catalog are based on flowering size plants in four-inch pots.



CULTURAL SUGGESTIONS FOR CYPRIPEDIUMS

Contrary to popular belief, a wide variety of orchids will grow in the same enclosure. *Cypripediums* and *Cattleyas* are particularly good neighbors and most varieties will thrive under the same conditions. If space is available and the budget allows a separate enclosure, there are a few fancy touches that *Cypripediums* will enjoy.

Osmundine is a standard medium for growing all varieties of *Cypripediums*. However, we are now using a potting mixture of $\frac{1}{3}$ sand, $\frac{1}{3}$ peat moss, and $\frac{1}{3}$ fir bark, and are having good results.

Light intensity should be the same as for *Cattleyas* – relaxing without being depressing to the average human being. In cool, damp climates provide more sunlight than in hot, dry ones. The color of the leaves is a good indication – dark green, too much shade; olive green, just right; yellow green, too much light.

Temperatures may run into the high nineties without damage but where possible 68 degrees to 80 degrees is better. Where low day temperatures prevail a night temperature of 50 degrees to 55 degrees would be preferable. In warmer regions 60 degrees or a little higher is beneficial.

Don't be afraid to let your *Cypripediums* dry at the roots for a short period, then water them thoroughly. *Cypripediums* enjoy a free circulation of air, but remember to keep the relative humidity as near 60% as possible. If your plants have good root systems a light spray overhead will do no harm but it is better to let them dry before nightfall. The warm growing whites and mottled leaf varieties may be handled as other types but prefer a temperature five to eight degrees higher.

Feeding *Cypripediums* is very beneficial during the growing season. Use fish emulsion or nitrogen fertilizers sparingly.



CYPRIPEDIUMS

Connoisseur and Exhibition Varieties

AMBITION, FINE VARIETY (<i>Fairreanum</i> x <i>Gwen Hannen</i>)	\$40.00
One of the largest and finest <i>Cypripediums</i> in cultivation. The wide white dorsal is veined half way in apple green spotted somewhat in dark brown. The pouch and petals blend softly from a sorghum brown to a dull apple green and there are a few spots on the latter.	
BALACLAVA (<i>Gwen Hannen</i> x <i>Warrior</i>)	\$50.00
A bold, handsome flower. The broad, erect dorsal is banded with white around the green, purple spotted area. The petals are honey-yellow with a central line of brown and some brown shading on the dorsal halves; the margins are undulated. The honey-yellow rim and base of the lip sets off the bright brown frontal portion to great advantage.	
CAMEO, WYLD COURT (<i>Etta</i> x <i>Nesta II</i>)	\$75.00
A vigorous grower bearing flowers of tremendous size and substance. The dorsal is white with a green aurora, profuse with large claret spots. Pouch and petals are sepia over-flushed with claret. A most unusual flower. Long lasting.	
CAPPAMAGNA V. FRED SANDER FCC-RHS (<i>Cardinal Mercier</i> x <i>Nubia</i>)	\$40.00
This striking <i>Cypripedium</i> of excellent proportions and texture presents petals and pouch of Hay's russet with wax yellow trim and a white dorsal showing clearly by means of contrast a lively design in perilla purple darkening to dark Indian red at the base where patches of apple green appear. It is a free bloomer.	
CHRYSOSTOM V. STANLEY BALDWIN FCC-MOS (<i>Christopher</i> x <i>Pyramus</i>)	\$40.00
An interesting large <i>Cypripedium</i> of soft colors is this good bloomer. Its white dorsal is veined in apple green and spotted in dull soft sorghum brown, forming a color scheme which is repeated in the petals and intensified in the pouch.	
CLARE DE LUNE AM-RHS (<i>Emerald</i> x <i>Alma Gavaert</i>)	\$40.00
This very lovely form of <i>Maudiae</i> Mag. bears immense flowers, having white dorsal, streaked in green with green pouch and petals. The very best obtainable variety of this type.	
CRESCENT MEADOW (<i>Agnes de Burc</i> x <i>Margaret MacCaull</i>)	\$25.00
The name suggests refreshment and satisfaction. The pouch and petals are golden amber green crowned with dorsals varying in color range from driven snow to shades of delicate amber green.	
DENEHURST V. SURPRISE AM-RHS (<i>Dervish</i> x <i>Lady Mona</i>)	\$100.00
Compact habit of growth with flowers of medium size and excellent form. Stem length of dignified proportions. The color is a fusion of deep to faint chartreuse. The breeding qualities of this fine hybrid are internationally recognized. Very rare, and very few plants in world for sale.	
DERVISH (<i>Bordube v. Eau de Nil</i> x <i>Grace Darling</i>)	\$40.00
Modest in its space consumption, producing flowers exquisitely fashioned in chartreuse and white.	
DIANA BROUGHTON (<i>Doris Black</i> x <i>Grace Darling</i>)	\$25.00
This bright <i>Cypripedium</i> of waxy, light greenish yellow topped by a white dorsal edge is appealing for its simple coloring and ruffled borders as well as its large size.	
ELAINE II, V. LUNA (<i>insigne, Sanderæ</i> x <i>nitens-leeaanum, Charlesianum</i>)	\$30.00
A large flower of perfect formation. The sepal and petals are amber veined and flushed with purple-brown. Two-thirds of the large, well shaped dorsal is white, the remaining portion is greenish-brown lined and streaked with purple. A very beautiful, strong growing, free-blooming <i>Cypripedium</i> .	
F. C. PUDDLE FCC-RHS AM (<i>Actæus Bianca</i> x <i>Astarte</i>)	\$50.00
Excellent shape and texture, glistening white except for tinting of pale yellow on the staminode. Rounded, niveum type lip.	
GWEN HANNEN, variety FIELD MARSHAL, FCC-RHS	\$50.00
Probably the largest, this <i>Cypripedium</i> displays a massive white dorsal, the lower part of which is beautifully veined with apple green and sprinkled with a handful of dull to fairly intense dark spots. The wide petals and pouch blend a soft sorghum brown and green-yellow. Very fine. Very limited quantity.	

- HARRISIANUM V. SUPERBUM, G. S. BALL'S VAR.** (*Barbatun x Villosum*) \$35.00
Probably one of the finest cut-flower Cypripediums in existence, particularly as it is more or less a continuous bloomer, producing on long stems, large flowers almost entirely dark Indian red in color with a touch of light green in the central area and a slight fusion to perilla purple in the dorsal veins. The small area of white in the upper dorsal emphasizes by strong contrast the dark coloring. Beautiful mottled foliage.
- JOHN THATCHER** (*Lady Dillon x Thrums, Langley var.*) \$25.00
All the visitors who have seen a group of this variety grown at our nursery have been much impressed by the size, excellent form and brilliant color of this Cypripedium. It is strong growing and the flowers are unusually large. The general color tone, pouch and petals are a bright mahogany red on a yellowish green base. The large well-shaped dorsal is white save for a small area of green at the base and a large area of deep purple spotting.
- MARGARET MacCAULL** (*Chesham x Doris Black*) \$25.00
Of unusually fine form, Margaret MacCaull is reminiscent of an early autumn day in its subtle blending of rich tones. The deeper coloring of russet and sepia in the upper half of the bloom is made more vivid by the snowy edge of the dorsal. The pouch, lower half of the petals and dorsal-sepal combine lighter shades of citron green and olive yellow.
- REDSTART, EXBURY VAR. AM-RHS** (*Nubian x Mrs. Carey Batten*) \$40.00
Medium-size flower. The pouch is solid perilla purple. The lower half of the petals is a perilla purple, while the upper half is marked with Indian purple. The base of the dorsal is darkest purple changing into perilla with narrow white border.
- ROSY DAWN AM-RHS** (*Gwen Hannen album x Astarte*) \$30.00
Amplly proportioned and well balanced, this hybrid is porcelain white, exquisitely tinged with blush. There are rose specklings at the base of the sepals and petals and the lip is white with a pink flush.
- WARRIOR, GREEN'S VAR. AM** (*Alcibiades, v. Illustrious x Lord Wolmer, v. Duke of Marlborough*) \$50.00
No brief description can do justice to this world-famous hybrid. It has a free flowering habit; symmetrical flowers average size. Dorsal is apple green with chocolate spots. Pouch and petals are chartreuse heavily overflushed with chocolate rust.



SIZE OF CYPRIPEDIUM PLANTS IN 4 INCH POTS.

Cypripediums of High Quality

*ALABASTER (<i>Alcibiades, superbum x Godseffianum</i>)	\$ 7.50
Medium size. Pouch and petals green fused with purple. Dorsal white with green at base and much light purple spotting.	
BARONIAL (<i>Shogun x The Baron</i>)	\$ 7.50
This is a free-blooming Cypripedium of dull sorghum brown and pale apple green accented by vivid dark Indian red dorsal spots.	
BEDFORDIAE (<i>Actaeus, v. Revoluta x Shogun</i>)	\$10.00
Bedfordiae is characterized by a field of large irregularly placed dark spots beautifully gracing a superb wide dorsal of yellow-green over white. The pouch and petals are subdued sorghum brown and citron green.	
BEECHMANII (<i>Probably same parentage as Berkeleyanum which is Bellatulum by Boxalli</i>)	\$17.50
Most attractive. Well shaped. The petals and pouch and lower dorsal are soft green overlaid light brown. The petals have a brown central line. Dorsal is white lightly spotted with about half the lower area in green.	
BERYL PEARMAN (<i>Nacie Gamble x Mem. F. M. Ogilvie</i>)	\$15.00
A large flower of excellent proportions, the pouch and petals are deep purple over a green base. The large dorsal is two-thirds white, heavily spotted and streaked in bright, vivid purple.	
BORDUBE VAR. EAU DE NIL (<i>Florence Spencer x viridissimum</i>)	\$20.00
This free bloomer of average size displays a green-yellow dorsal with but a faint edge of white and the least suggestion of brown near the base. The pouch and ruffled petals blend softest sorghum brown and pale green-yellow.	
*BRIGHTYES (<i>Earl of Tankerville x Sultan</i>)	\$10.00
Here is a Cypripedium of unusual traits. It shows a partly divided sepal backing a slim waxy Indian red pouch. The petals are spotted closely in Hay's russet rendering a checkered look balancing an unusual dorsal on which the large spots fairly protrude and at the top of which a very light touch of perilla purple shows through.	
*CALUNA (<i>Cardinal Mercier x Luna</i>)	\$ 7.50
A medium sized crisp looking Cypripedium whose basic color is a bay brown covering pouch, petals and part of the dorsal. The dorsal background is snow white amply splashed with perilla purple to brown to yellow-green. It varies often becoming either speckled or solid in color and ranges from vivid to soft coloring.	
CAMELOT (<i>Phantasy x Walter Moore</i>)	\$15.00
Similar in color and general shape to insigne v. Sanderianum. Slightly darker shade of green-yellow.	
CAPPAMAGNA (<i>Cardinal Mercier x Nubia</i>)	\$15.00
Petals and pouch are reddish brown with yellow trim. The base of the dorsal is apple green which changes to a white background overlaid with perilla purple.	
CORSAIR (<i>Niobe x Nitens</i>)	\$10.00
Large size. Natal brown pouch. Petals natural brown and yellow-green. The dorsal is yellow-green at the base shading into white and lined with deep purple.	
*CYCLOPS (<i>Actaeus x Fulshawense</i>)	\$10.00
A wide, square-like pouch and broad look describe this flower, a good bloomer of medium size. The color scheme is not vivid but combines a neutralized dark Indian red, sorghum brown and apple green. There are very interesting large dark freckles on its wide dorsal face.	
DRACO VAR. ROYAL OAK (<i>Hera x insigne</i>)	\$12.50
With almost identical sepal and dorsal this free bloomer offsets with interest a pair of petals and a pouch of plain Indian red. The dorsal and sepal spots are dark Indian red on fields of apple green and white.	
FLYING SWORD (<i>Nena v. giganteum x Perseus v. alpha</i>)	\$12.50
Rich in color. An attractive Cypripedium.	

GLENARM (<i>Thrush x Germaine Opoix</i>)	\$15.00
Glenarm is a strong free-blooming Cypripedium. The typical waxy dorsal has a vivid dark Indian red color fusing over apple green to perilla purple to white. The sepal repeats the deepest red color of the dorsal blending to a dull apple green the same combination of which covers the pouch.	
GOLIATH (<i>insigne, Harefield Hall x Troilus, Amy Moore</i>)	\$12.50
A large flower of the Harefield Hall type, this bloom shows dull yellow-green and sorghum brown coloring in the pouch and petals, accented by a more vivid green dorsal which provides an excellent background for many dark irregular size spots. It is a free bloomer.	
HADRIAN (<i>Beacon x Leeanum</i>)	\$15.00
A very good bloomer is Hadrian whose basic color throughout is olive yellow subdued by brighter apple green veins in the slightly spotted dorsal and intensified in the petals and pouch tip, while the upper pouch is Prussian red.	
KING ARTHUR (<i>Bingleyense x Monsieur de Curte</i>)	\$15.00
One of the best cut-flower Cypripediums, this dark, average sized free bloomer has Hessian brown petals and pouch, void of any trim, and a similarly colored dorsal blending to light perilla purple and finally to a faint showing of white.	
KITTY (<i>Swinburnei x T. B. Haywood</i>)	\$15.00
Kitty is a well-shaped, medium-sized bloom. The pouch is Indian purple with a light apple green tip. The apple green predominates in the dorsal with veins of deep Indian purple.	
MARTIN (<i>Bourton Lady x Swallow</i>)	\$15.00
The sharp coloring of large dark Indian red spots over apple-green veining and plain white helps to make this massive free bloomer attract the eye. In the petals it repeats the combination to a less intense degree and adds shadings of russet borrowed from the pouch, solid in that color.	
MAUDIAE VAR. MAGNIFICUM FCC-RHS (<i>Callosum, Sanderæ x Lawrenceanum Hyeaenum</i>)	\$12.50
Probably the most profitable cut-flower Cypripedium, this green and white hybrid blooms throughout the entire year. Beautiful mottled foliage.	
MEMORIA J. H. WALKER (<i>Lady Dillon x Cardinal Mercier</i>)	\$20.00
Matching petals and pouch of claret brown, crisply trimmed in amber yellow characterize this large free-blooming Cypripedium. The dorsal is colored in citron green under dark Indian red changing to perilla purple over white.	
OLYMPUS, THE CHAIRMAN (<i>Alcibiades x Leeanum, Clinkaberryanum</i>)	\$20.00
The markings of this bloom present an unusual study in design, beautified by striking proportions and soft coloring. The flower offers in way of contrast a warm sorghum brown pouch against a large tapering citron green tinted sepal.	
PYRAMUS (<i>Hera v. Euraydes x Mrs. W. Mostyn</i>)	\$15.00
Large bloom. Pouch and petals a combination of mahogany and Nile green. Dorsal green at base, shading to white and heavily spotted with perilla purple.	
QUEEN OF THE BELGIANS (<i>Cynthia x Monsieur de Curte, Alportense</i>)	\$15.00
Pouch and petals of soft deep Corinthian red blended in part over sorghum brown, supplemented by the soft sorghum brown to dull perilla purple spots daubed at random over the white and faint apple-green dorsal.	
ROSSETTI VAR. MAGNIFICUM (<i>insigne, Sanderianum x Maudiae</i>)	\$25.00
This lovely yellow bloom has very light green at its dorsal while the upper third is white.	
SIR REDVERS BULLER (<i>insigne x Smithii</i>)	\$12.50
The pouch and petal ends are lightly tinted of Bordeaux and the central part of the petals and sepal are light lumiere green with carefully dotted lines in burnt lake.	
SUNDOWN (<i>Anak x Lady Dillon</i>)	\$12.50
Sundown displays a well shaped white dorsal splashed with green-yellow symmetrically lined with deeper apple-green veins. It is covered by varied sized dark Indian red spots thickly concentrated in the center and gradually thinning out to nothing toward the edge.	
THE MAJOR, BECKTON'S VAR. (<i>Gaston Bultel x Harrisianum, superbum</i>)	\$15.00
The beautiful dorsal of this bloom presents a study in design. The white edges contrast with the mass of vinaceous purple, accentuated by a center dividing line of shiny deep Indian red.	

- *THUNDERER** \$ 7.50
 Good commercial variety. An easy grower. Flowers of medium size with good stem length. Dorsal is pinkish background heavily spotted with chocolate red spots. Petals and pouch are beige overflush.
- *WILLIAM KIRCH** (*insigne* x *Grace Darling*) \$ 7.50
 The slender beauty of this *Cypripedium* captures all the freshness of morning sunshine. The entire bloom is bright Chalcedony yellow, lightly veined with dull yellow-green. The white dorsal border gives added charm.

SPECIAL COMBINATION OFFER OF CYPRIPEDIUMS IN THE HIGH QUALITY GROUP
 The varieties marked with the * are offered in a group, your selection,
3 PLANTS FOR \$20.00



Easy on the Budget Varieties

BROWN GROUP

- ANAK** (*Cyclops* x *The Duchess*)
AUROBE (*Aureum*, [*Oedippe*] x *Niobe*)
CHANTICLEER (*Atlantis* x *Charlesworthii*)
HARRISIANUM (*Barbatum* x *Villosum*)
 The first *Cypripedium* Hybrid raised and flowered.
MAUDIAE COLORATUM (*Callosum* x *Lawrenceanum*)
NYDIA (*Niobe* x *Nitens-Leeanum*, *Charlesianum*)
PRIAM (*insigne* x *Niobe*)

GREEN GROUP

- ACTAEUS LANGLEYENSIS** (*insigne* *Sanderæ* x *Leeanum*)
AUREUM HYEANUM (*Nitens*, *Sallieri Hyeaenum* x *Spicerianum*)
AUREUM EXCELSIS (*Nitens* x *Spicerianum*)
INSIGNE
LATHAMIANUM (*Spicerianum* x *Villosum*)
LEEANUM GRATRIAXIAE (*insigne*, *Sanderæ* x *Spicerianum*)
STADIUM (*Dreadnought* x *Troilus*)
TRACEYANUM (*Aureum* x *Leeanum*, *Giganteum*)
NERISSA (*Maudiae* x *San-Actaeus*)

YELLOW GROUP

- MINOS YOUNGII** (*Anthurianum* x *Spicerianum*)
INSIGNE SANDERAE

BROWN, YELLOW and GREEN GROUPS — \$5.00 per plant

COMBINATION OFFER — 4 plants for \$15.00
 May include selections from all color groups.

CYPRIPEDIUM SEEDLINGS

- 5574 **JOHN THATCHER** (*Lady Dillon x Thrums, Langley Var.*)
 5580 **JOHN THATCHER** (*Lady Dillon x Thrums, Langley Var.*)
 5583 **TALEGA** (*Actaeus Var. Bianca, W'birt Var. x Chesham*)
 5587 **CAPTAIN JACK** (*Dora x Margaret MacCaull*)
 5795 **ACTAEUS BIANCA #107 X MEM. W. H. WHITE #106.**
 5858 **CRESCENT MEADOW** (*Agnes de Burc #25 x Margaret MacCaull*)
 5911 **FANTASIA** (*Cyclops A.M. x Christopher, G.D.N.*)
 5947 **DIANA BROUGHTON, EXTRA FINE, #153 X AGNES DE BURC.**
 6024 **HOLDENII W'BIRT X CRESCENT MEADOW VAR. LITTLE JOHN.**
 6028 **TALEGA #196 X EMERALD X MRS. CARL HOLMES #197.**
 6030 **MAUDIAE, W'BIRT #200 X TALEGA #196.**
 6035 **MEM. W. H. WHITE #131 X TALEGA #205.**
 C 160 **ANSUN #303 X DICKLER #304.**
 C 196 **FLORENCE SPENCER FCC X CRESCENT MEADOW VAR. FRIAR TUCK.**

PRICES. ALL ABOVE SEEDLINGS.

Small Size. Leaves 2 to 2½" long	\$ 5.00 each
Medium Size. Leaves 2½ to 3" long	7.50 each
Large Size. Leaves 3 to 5" long	10.00 each



SMALL — 2½"

MEDIUM — 3"

LARGE — 3½"

CYPRIPEDIUM SEEDLINGS

The *Cymbidium* Orchid...

Cymbidium orchid flowers are long lasting – from four to eight weeks, with long, graceful flower spikes. They come in a wide range of colors, or, you might say all colors of the rainbow, with ten to thirty flowers on each spike. No orchid collection is complete without a few plants of *Cymbidiums*, but be sure you purchase dependable varieties from a dependable firm. Some varieties are difficult to flower, or produce flowers of poor quality.

Our offerings are divisions of proven plants flowering in our greenhouses or lath houses. With our large stock of awarded plants, breeding plants, show varieties and commercial cut flower plants we can fill your every need. Prices are now within the reach of all and are quite in line with other species of orchid plants.



CULTURAL SUGGESTIONS FOR CYMBIDIUMS

Cymbidiums and many varieties of *Cypripediums* will grow well in the open in many parts of the United States, side by side and under such a wide range of conditions as to have caused wide dissension among amateurs and some professionals as well on the subject of ideal conditions for them. However, it is generally considered now that if one follows more or less a few standard rules successful culture is assured. First of all, provide a light open soil mixture so that the water will drain freely. This may be accomplished by a mixture of $\frac{1}{3}$ peat moss, $\frac{1}{3}$ sand and $\frac{1}{3}$ fir bark.

Ideal light intensity is that produced in a lath house constructed so that the laths are the space of one lath apart. The reason for this is that as the sun moves, the shade of the laths will move along the leaves providing periods of lower light intensity of about the correct degree.

If your growing medium is well drained the plants will take water about once a week in the summertime. A good way to determine the degree of dryness that should be reached be-

fore watering is to take a handful of soil from just beneath the surface and squeeze it. If it forms a cake the soil is too moist for watering. If it does not form a cake then it is time to water.

In areas where freezing conditions are encountered during the winter months *Cymbidiums* may be grown by a combination glass house and out-of-doors culture. In this case it is better to employ pot culture and the same soil mixture recommended above or a bit more fibrous. In summer grow them under lath or trees that will afford the above light intensity and bring them inside when the outdoor temperature reaches the low forties at night. Night temperature of 50 degrees to 55 degrees is recommended for *Cymbidiums*. If placed in the same house with *Cattleyas* or *Cypripediums* give them the position with the greatest amount of light.

Fertilizing with fish emulsion or high nitrogen fertilizers during the growing season is beneficial, tapering off in the fall. Fertilize sparingly at frequent intervals rather than a large quantity at one time.

CYMBIDIUMS

Connoisseur and Exhibition Varieties

	PRICE PER BULB
BLUE SMOKE V. BLACKAMOOR (<i>Lowianum</i> x <i>Mirabel</i>)	\$ 25.00
Fine green . . . almost black lip. Very fine in every way. As with all Blue Smoke, a prolific grower.	
BLUE SMOKE V. GREEN MEADOW (<i>Lowianum</i> x <i>Mirabel</i>)	\$ 35.00
Good green . . . reddish lip. One of the best Blue Smokes.	
BLUE SMOKE VAR. SEA GREEN (<i>Lowianum</i> x <i>Mirabel</i>)	\$ 35.00
One of the best of the Blue Smokes. As the name denotes, a beautiful green with a deep velvet red lip.	
BODMIN MOOR V. KATHLEEN (<i>Alexanderi</i> , <i>W'birt FCC-RHS</i> x <i>Erica Sander</i>)	\$ 37.50
Large yellow . . . deep pink lip . . . fine quality . . . good grower.	
BODMIN MOOR V. GREEN IVORY (<i>Alexanderi</i> , <i>W'birt FCC-RHS</i> x <i>Erica Sander</i>)	\$ 75.00
First class flower, for size and shape. One of the best. White with green suffusion.	
BRAMHOPE (<i>Alexanderi</i> , <i>W'birt Var. FCC-RHS</i> x <i>Curlew #4</i>)	\$ 50.00
Light yellow, pink spotted lip; very fine flower. Best characteristics of its parents.	
CLARE ARMSTRONG V. ROBIN HOOD (<i>Alexanderi</i> , <i>W'birt FCC-RHS</i> x <i>Mirelle</i>)	\$ 75.00
Ivory green with dark pink lip. Extra fine variety in every way. Vigorous grower. Free flowering.	
CYGNUS VAR. CONSTELLATION (<i>Alexanderi</i> x <i>Coningsbyanum</i>)	\$ 75.00
A very large Cymbidium of great form and texture. A beautiful soft honey-colored flower with a lovely lush red lip. This flower was recently awarded a Bronze certificate. Truly one of our newest and brightest stars in our collection.	
DORCHESTER V. SNOWDROP (<i>Alexanderi</i> x <i>Tityus</i>)	\$ 50.00
Pure white. Very heavy grower. Fine shape and quality.	
ETHEL WARD V. PURITY (<i>Alexanderi</i> , <i>W'birt FCC-RHS</i> , <i>Lysander</i>)	\$ 37.50
Almost white, slight flush of yellow. Distinctive flower . . . good grower.	
GRACE MITCHELL (<i>Alexanderi</i> , <i>W'birt Var. FCC-RHS</i> x <i>Apollo #4</i>)	\$ 50.00
Pastel pink, darker lip. Large, good shape and texture.	
JOCOSITY V. GREEN IVORY (<i>Curlew</i> x <i>Lowio-Grandiflorum</i>)	\$ 50.00
As its name denotes . . . ivory green, with lip mottled with chestnut. Extra fine.	
JUNGFRAU VAR. BLUSH (<i>Alexanderi</i> x <i>Eagle</i>)	\$ 37.50
Wonderful form of this well known variety. Almost white with faint flush of pink.	
MANDARIN, W'BIRT VAR. AM-RHS (<i>Miranda</i> x <i>Wheatear</i>)	\$ 75.00
Very fine green, fused with yellow . . . very large flower . . . good grower and producer.	
NORTHERN LIGHTS V. DAYBREAK (<i>Giant Rose</i> x <i>North Ampliatum</i>) Silver Award	\$100.00
Outstanding pink, with deeper lip . . . fine shape and texture . . . extra.	
OLYMPUS V. ALBENS AM-RHS (<i>Alexanderi</i> , <i>W'birt FCC-RHS</i> x <i>Vesta</i>)	\$ 37.50
Creamy white . . . with pink lip . . . very fine.	
OLYMPUS VAR. REX (<i>Alexanderi</i> , <i>W'birt</i> x <i>Vesta</i>) <i>FCC-RHS</i>	\$ 50.00
Used extensively in breeding. Large white, flushed with pink, with mottled lip. Very fine texture.	
PAUWELSII V. COMTE DE HEMPTINE FCC-RHS (<i>insigne</i> x <i>Lowianum</i>)	\$ 50.00
Very large . . . bronze . . . used extensively in breeding . . . tremendous grower.	
PEARL V. MASTIFF AM-RHS (<i>Alexanderi</i> x <i>Grandiflorum</i>)	\$ 50.00
Ivory, flushed pink, with the best of its parental characteristics.	
PERI V. CALIFORNIA (<i>Pauwelsii</i> , <i>Comte de Hemptine FCC-RHS</i> x <i>President Wilson</i>)	\$ 75.00
Bronze mixed with much yellow . . . good producer and grower.	
PERI V. CLOTH OF GOLD (<i>Pauwelsii</i> , <i>Comte de Hemptine FCC-RHS</i> x <i>President Wilson</i>)	\$ 35.00
This peri, as its name denotes, predominantly golden, overlaid with bronze . . . very fine.	

	PRICE PER BULB
PERI V. DISTINCTION (<i>Pauwelsii</i> , <i>Comte de Hemptine</i> FCC-RHS x <i>President Wilson</i>)	\$ 50.00
This variety carries tremendous spikes with large, well formed, reddish bronze flowers.	
PERI V. GREEN MEADOW (<i>Pauwelsii</i> , <i>Comte de Hemptine</i> FCC-RHS x <i>President Wilson</i>)	\$ 37.50
Bronze, overlaid with green . . . very fine variety.	
PERI V. IMPERIAL (<i>Pauwelsii</i> , <i>Comte de Hemptine</i> FCC-RHS x <i>President Wilson</i>)	\$ 50.00
Silver Award. As its name denotes . . . a truly regal variety . . . immense spikes of well formed golden-bronze flowers.	
PERI V. IRONCLAD AM-AOS (<i>Pauwelsii</i> , <i>Comte de Hemptine</i> FCC-RHS x <i>President Wilson</i>)	\$100.00
AM-AOS Silver Award. Rich bronze . . . extra large well formed flowers . . . possibly the finest of the Peris.	
PERI V. THE KING (<i>Pauwelsii</i> , <i>Comte de Hemptine</i> FCC-RHS x <i>President Wilson</i>)	\$ 75.00
AM-AOS. Follows closely with regard to size to Ironclad . . . tremendous spikes of golden bronze flower.	
QUEEN ELISABETH V. PARAGON (<i>Flamingo</i> x <i>Olympus</i>)	\$ 37.50
Very fine . . . well formed pink with deeper lip.	
QUEEN MARY AM-RHS (<i>Flamingo</i> x <i>Jason</i>)	\$ 50.00
Creamy yellow . . . with red lip . . . outstanding variety . . . good shape and size.	
SANTA BARBARA V. ROSEMARY (<i>Alexanderi</i> , <i>W'birt</i> FCC-RHS x <i>Charm</i> , [<i>Cendre de Rose</i>])	\$ 37.50
Rosy pink with deeper lip . . . fine shape and texture.	
SWALLOW, W'BIRT VAR. (<i>Alexanderi</i> , <i>W'Birt</i> FCC-RHS x <i>Pauwelsii</i>)	\$ 62.50
Good white . . . lip heavily blotched with red . . . fine size and shape.	
TINSEL (<i>Pearl Mag.</i> x <i>Babylon</i> , <i>Castle Hill</i>)	\$25.00 \$ 30.00
Our cross of Tinsel flowered in 1955 and surpassed our greatest expectations. Many fine plants resulted. We have a few unflowered seedlings that should flower in 1957.	
Also a few divisions of Varietal named plants. Quotations on request.	
WOODCOCK V. BRONZE KING AM-RHS (<i>Alexanderi</i> x <i>Firefinch</i>)	\$ 50.00
Very fine bronze . . . overlaid with gold . . . well worth while variety.	
YARM (<i>Alexanderi</i> , <i>W'birt</i> Var. FCC-RHS x <i>Thora</i> FCC-RHS #5)	\$ 50.00
Light yellow . . . fine shape and size, carrying the best traits of both parents.	



CYMBIDIUM TINSEL VAR. MINUET

High Quality Commercial Varieties

This listing is made up as a representative group of our better quality cut flower varieties. We quote a range of prices as all plants have been evaluated while in flower.

	PRICE RANGE PER BULB	
ADELE SANDERS (<i>Alexanderi</i> , W'birt FCC-RHS x <i>St. Alban</i> , <i>Princess Beatrix</i>)	\$12.50	\$35.00
Yellow tones . . . uniformly good . . . large, well shaped flowers.		
ALBANIA (<i>Albanense</i> x <i>Alexanderi</i>)	\$ 5.00	\$25.00
Blush white to pink shades . . . with deeper lip . . . good producer.		
ALEXANDERI (<i>Eburneo-Lowianum</i> x <i>insigne</i>)	\$ 5.00	\$25.00
From white, blush white to cream . . . well known variety of proven worth.		
ANNA (<i>Alexanderi</i> , <i>Albens</i> x <i>Mary Sander</i>)	\$ 6.00	\$25.00
Blush white to pink . . . well formed medium flowers of good substance.		
ANTHONY EVANS (<i>Alexanderi</i> , W'Birt FCC-RHS x <i>Bodmin Moor</i>)	\$ 7.50	\$25.00
Ivory white to blush white . . . with much deeper pink lip . . . large flower.		
BALDUR (<i>Alexanderi</i> x <i>Castor</i>)	\$10.00	\$37.50
Cream to light yellow . . . flowers large of good substance . . . good grower.		
BLUE SMOKE (<i>Lowianum</i> x <i>Mirabel</i>)	\$ 5.00	\$25.00
Various shades of green . . . medium size . . . rated one of the best greens.		
BLUSH (<i>Alexanderi</i> , W'birt FCC-RHS x <i>Magali Sander</i>)	\$10.00	\$30.00
As the name denotes a blush pink . . . very fine . . . flowers large . . . good shape.		
BRUGES GEM (<i>Pauwelsii</i> , <i>Comte de Hemptine</i> FCC-RHS x <i>Ralph Sander</i>)	\$ 5.00	\$25.00
From bronze to green with reddish lip . . . tremendous grower . . . large spikes and flowers.		
BRUGES RUBY (<i>Pauwelsii</i> , <i>Comte de Hemptine</i> FCC-RHS x <i>Regina</i>)	\$ 5.00	\$17.50
Bronze with red lip — large flower — good producer.		
BULLFINCH (<i>Alexanderi</i> x <i>Garnet</i>)	\$15.00	\$25.00
Good pink with deep pink lip — good form.		
CAIRNGORM (<i>Valhalla</i> x <i>Yellow Hammer</i>)	\$ 5.00	\$10.00
Green to yellow with red lip.		
CHARM X ERYTHROSTYLUM	\$10.00	\$17.50
Tawny yellow with red lip . . . medium size . . . good producer.		
CLARE ARMSTRONG (<i>Alexanderi</i> , W'birt FCC-RHS x <i>Mirelle</i>)	\$10.00	\$50.00
Very fine variety . . . ivory to blush white . . . with showy deep pink to red lip. Good size and substance.		
COLENE TRITZ (<i>Rio Rita</i> x <i>Plover v. Orient</i>)	\$ 5.00	\$17.50
One of our new introductions . . . running so far most to greens . . . with reddish lip . . . good size and shape.		
DABCHICK X PEARL V. MAG. FCC	\$10.00	\$35.00
Mostly greenish shades . . . medium size . . . well shaped flowers.		
DORCHESTER (<i>Alexanderi</i> x <i>Tityus</i>)	\$10.00	\$25.00
Very large . . . blush flowers with deeper lip . . . tremendous grower.		
FAIRY PRINCESS (<i>Lyoth</i> x <i>Princesse Astrid</i>)	\$ 6.00	\$15.00
Lively pink with long spikes . . . bearing many medium sized flowers.		
FLYCATCHER (<i>Alexanderi</i> , W'birt FCC-RHS x <i>Delphine</i>)	\$17.50	\$37.50
Greenish yellow whites with attractive deep pink lip . . . large, good shaped flowers . . . very prolific.		
HEATHROW (<i>Claudette</i> x <i>Erica Sander</i>)	\$12.50	\$25.00
Ivory greens with pink lip . . . very graceful spikes . . . very fine variety.		

	PRICE RANGE PER BULB	
HENRY DAVIS (<i>Alexanderi</i> , W'birt x <i>Diadem</i>) Large yellow — good producer.		\$37.50
ILKLEY MOOR (<i>Bodmin Moor</i> x <i>Pauwelsii</i> , <i>Comte de Hemptine</i>) Bronze overlaid with green . . . very large spikes . . . bearing many flowers . . . good grower.	\$ 7.50	\$25.00
IRENE GIBBS (<i>Bodmin Moor</i> , <i>F. K. Sander</i> x <i>Swallow</i>) From green to rust brown . . . with very distinctive lip.	\$ 5.00	\$25.00
JANETTE (<i>Alexanderi</i> , W'birt <i>FCC-RHS</i> x <i>Joy Sander</i>) Blush to deep pink veined with green . . . very good shape and substance.	\$ 7.50	\$17.50
JASON (<i>Alexanderi</i> x <i>Miranda</i>) White large flowers . . . showy deep pink lips . . . fine size and shape.	\$12.50	\$17.50
JOCOSITY (<i>Curlew</i> x <i>Lowio-Grandiflorum</i>) Ivory green with mottled mahogany lip.		\$37.50
MIDAS (<i>Miranda</i> x <i>Pauwelsii</i>) Bronzy-yellow — good size and producer.		\$17.50
MIRANDA (<i>Alexanderi</i> x <i>Lowio-Grandiflorum</i>) Green suffused with yellow . . . excellent variety.	\$ 7.50	\$37.50
NELL GWYNNE (<i>Mandarin</i> x <i>Myrna</i>) Yellowish-bronze . . . with yellow markings . . . very fine novelty.	\$12.50	\$25.00
PERI—EXCLUSIVE OF NAMED VARIETIES (<i>Pauwelsii</i> , <i>CDH</i> x <i>President Wilson</i>) Very prolific . . . bronze to yellow and green . . . tremendous grower.	\$ 5.00	\$20.00
PERI, PICADOR (<i>Pauwelsii</i> x <i>President Wilson</i>) Yellowish bronze — lively red lip — good shape.		\$10.00
PERI, REDSKIN (<i>Pauwelsii</i> x <i>President Wilson</i>) As the name denotes — reddish bronze — throughout.		\$10.00
PERI, ROBIN (<i>Pauwelsii</i> x <i>President Wilson</i>) Brownish-yellow with pronounced red lip.		\$10.00
PRESIDENT WILSON (<i>Alexanderi</i> x <i>Lowianum</i>) Runs in color from blush to tan — very fine flower.	\$10.00	\$25.00
PRINCESS ELIZABETH (<i>Alexanderi</i> , W'birt <i>FCC-RHS</i> x <i>Princesse Astrid Bellissima</i>) Excellent pink in various shades . . . fine shape and substance.	\$ 5.00	\$25.00
PRINCESS MARY (<i>Garibaldi</i> , <i>Mag.</i> x <i>Princesse Astrid</i>) Rosy pink . . . medium size . . . good quality.	\$ 5.00	\$20.00
ROCK DOVE (<i>Alexanderi</i> , W'birt <i>FCC-RHS</i> x <i>Marabou</i>) Blush white with distinctive lip . . . good grower.	\$17.50	\$25.00
SANTA BARBARA (<i>Alexanderi</i> , W'birt <i>FCC-RHS</i> x <i>Charm</i> , <i>Cendre de Rose</i>) Blush to deep pink . . . excellent shape and substance.	\$ 5.00	\$25.00
SWALLOW (<i>Alexanderi</i> x <i>Pauwelsii</i>) Blush white to creamy yellow . . . with crimson lip . . . large flowers of excellent form.	\$10.00	\$50.00
WATER RAIL (<i>Alexanderi</i> , W'birt <i>FCC-RHS</i> x <i>Pixie</i>) Mostly blush white with deeper pink lip . . . good grower . . . large spikes, with excellent flowers.	\$17.50	\$50.00
WEST PARK (<i>Alexanderi</i> , W'birt <i>FCC-RHS</i> x <i>Landrail</i>) Creamy pink with deep rich pink lip . . . very fine addition to a collection.	\$ 7.50	\$25.00

SPECIAL CYMBIDIUM OFFERS

Established Divisions

GROUP 1. \$5.00 per Division.

- ANNA** (*Alexanderi, Albens x Mary Sander*)
Blush white to pink . . . well formed medium flowers of good substance.
- BRUGES GEM** (*Pauwelsii, Comte de Hemptine FCC-RHS x Ralph Sander*)
From bronze to green with reddish lip . . . tremendous grower . . . large spikes and flowers.
- BRUGES RUBY** (*Pauwelsii, Comte de Hemptine FCC-RHS x Regina*)
Bronze with red lip — large flower — good producer.
- CAIRNGORM** (*Valhalla x Yellow Hammer*)
Green to yellow with red lip.
- COLENE TRITZ** (*Rio Rita x Plover v. Orient*)
Greens . . . with reddish lip . . . good size and shape.
- HEATHROW** (*Claudette x Erica Sander*)
Ivory greens with pink lip . . . very graceful spikes . . . very fine variety.
- PERI—EXCLUSIVE OF NAMED VARIETIES** (*Pauwelsii, CDH x President Wilson*)
Very prolific . . . bronze to yellow and green . . . tremendous grower.

GROUP 2. \$7.50 per Division.

- ALBANIA** (*Albanense x Alexanderi*)
Blush white to pink shades . . . with deeper lip . . . good producer.
- ALEXANDERI** (*Eburneo-Lowianum x insigne*)
From white, blush white to cream . . . well known variety of proven worth.
- ANNA** (*Alexanderi, Albens x Mary Sander*)
Blush white to pink . . . well formed medium flowers of good substance.
- ANTHONY EVANS** (*Alexanderi, W'birt FCC-RHS x Bodmin Moor*)
Ivory white to blush white . . . with much deeper pink lip . . . large flower.
- COLENE TRITZ** (*Rio Rita x Plover v. Orient*)
Greens . . . with reddish lip . . . good size and shape.
- ILKLEY MOOR** (*Bodmin Moor x Pauwelsii, Comte de Hemptine*)
Bronze overlaid with green . . . very large spikes . . . bearing many flowers . . . good grower.
- IRENE GIBBS** (*Bodmin Moor, F. K. Sander x Swallow*)
From green to rust brown . . . with very distinctive lip.
- PERI—EXCLUSIVE OF NAMED VARIETIES** (*Pauwelsii, CDH x President Wilson*)
Very prolific . . . bronze to yellow and green . . . tremendous grower.

GROUP 3. \$10.00 per Division.

- ALBANIA** (*Albanense x Alexanderi*)
Blush white to pink shades . . . with deeper lip . . . good producer.
- ALEXANDERI** (*Eburneo-Lowianum x insigne*)
From white, blush white to cream . . . well known variety of proven worth.
- BLUE SMOKE** (*Lowianum x Mirabel*)
Various shades of green . . . medium size . . . rated one of the best greens.
- BODMIN MOOR** (*Alexanderi, W'birt FCC-RHS x Erica Sander*)
Whites, ivory and yellow. Some flushed pink. Deep pink lip. Fine quality. Good grower.

GROUP 3. (Cont.)

DORCHESTER (*Alexanderi* x *Tityus*)

Very large . . . blush flowers with deeper lip . . . tremendous grower.

PERI—EXCLUSIVE OF NAMED VARIETIES (*Pauwelsii*, *CDH* x *President Wilson*)

Very prolific . . . bronze to yellow and green . . . tremendous grower.

PRESIDENT WILSON (*Alexanderi* x *Lowianum*)

Runs in color from blush to tan — very fine flower.

ROCK DOVE (*Alexanderi*, *W'birt FCC-RHS* x *Marabou*)

Blush white with distinctive lip . . . good grower.

GROUP 4. \$15.00 per Division.

ADELE SANDERS (*Alexanderi*, *W'birt FCC-RHS* x *St. Alban*, *Princess Beatrix*)

Yellow tones . . . uniformly good . . . large, well shaped flowers.

BALDUR (*Alexanderi* x *Castor*)

Cream to light yellow . . . flowers large of good substance . . . good grower.

BODMIN MOOR (*Alexanderi*, *W'birt FCC-RHS* x *Erica Sander*)

Whites, ivory, and yellow. Some flushed pink. Deep pink lip. Fine quality. Good grower.

CLARE ARMSTRONG (*Alexanderi*, *W'birt FCC-RHS* x *Mirelle*)

Very fine variety . . . ivory to blush white . . . with showy deep pink to red lip. Good size and substance.

DORCHESTER (*Alexanderi* x *Tityus*)

Very large . . . blush flowers with deeper lip . . . tremendous grower.

GRACE MITCHELL (*Alexanderi*, *W'birt Var. FCC-RHS* x *Apollo FCC-RHS*)

Pastel pink, darker lip. Large, good shape and texture.

PERI—EXCLUSIVE OF NAMED VARIETIES (*Pauwelsii*, *CDH* x *President Wilson*)

Very prolific . . . bronze to yellow and green . . . tremendous grower.

PRINCESS ELIZABETH (*Alexanderi*, *W'birt FCC-RHS* x *Princesse Astrid Bellissima*)

Excellent pink in various shades . . . fine shape and substance.

SANTA BARBARA (*Alexanderi*, *W'birt FCC-RHS* x *Charm*, *Cendre de Rose*)

Blush to deep pink . . . excellent shape and substance.

SWALLOW (*Alexanderi* x *Pauwelsii*)

Blush white to creamy yellow . . . with crimson lip . . . large flowers of excellent form.

WEST PARK (*Alexanderi*, *W'birt FCC-RHS* x *Landrail*)

Creamy pink with deep rich pink lip . . . very fine addition to a collection.

PLEASE NOTE:

All Cymbidium plants will be shipped out of pots.

All prices are for divisions as shown in illustrations of Special Priced Groups.

CYMBIDIUM SEEDLINGS

- 957 **LOWIANUM GRACEFUL X ALEX. W'BIRT, FCC-RHS**
We expect greens to greenish yellows.
- 961 **CYM. SWALLOW** (Alex. W'birt x Pauwelsii, Comte de Hemptine FCC-RHS)
A remake of this famous hybrid. White, pinks to yellow shades.
- 963 **MADELEINE VAR. AFTERGLOW X ALEX. W'BIRT FCC-RHS**
We expect a wide range of shades from bronze to golden yellows.
- 966 **MADELEINE CANBERRA X BABYLON CASTLE HILL FCC-RHS**
We expect deep pinks to rose shades.

Prices of Above Seedlings

Plants with 18" leaves	\$10.00
Plants with 1 bulb and 1 growth, 18" leaves	15.00

PHALAENOPSIS

SEAGULL (Dr. Henry O. Eversole x Doris).

Flowering size plants, according to size, \$10.00 to \$25.00.

ANTHURIUMS

RED, PINK, WHITE. (Divisions, not Seedlings.)

Flowering size. According to size, \$5.00, \$7.50 and \$10.00.



CYMBIDIUM SEEDLINGS

Plant with 1 bulb and 18" leaves

Plant with 18" leaves

THE FIR BARK STORY

BY LEO HOLGUIN

Orchids, as most of us know, have been grown in many different media and composts —Osmunda, Leaf Mold and Redwood Bark, Tree Fern Bark, Sand, Gravel, and almost everything else under the sun, excepting, maybe, the kitchen sink. As one grower remarked: "You can grow them on concrete once you learn how."

Most materials with the exception of Osmunda tend to break down rapidly which makes them impractical for the commercial grower to use. However, now we have the new wonder media, Fir Bark, which should last as long as Osmunda it is reported. A year or two ago a few growers started to experiment with this material and report excellent results.

At Armacost & Royston we started to experiment with Fir Bark in August of 1955. We have one house with mature Cattleyas in this material and two benches of Cattleyas potted in steam sterilized Fir Bark. In the benches the material is three inches deep.

Up to February, 1956, the plants have shown an increase in root growth. The top growth seems to be about the same as when Osmunda is used. We will not know about the quality of the flowers until the Summer or Fall of 1956 when the plants come into bloom.

At this time, February 1956, we can say that results thus far are satisfactory. We cannot say, frankly, that Fir Bark will take the

place of Osmunda. At least two years of experimentation will be required. We want to learn definitely just how long Fir Bark will last before breaking down.

In addition to the above plantings we have a bench of Seedlings in Fir Bark and they are doing very well. We are also using the material in our Cymbidium and Cypripedium composts in place of pine shavings or redwood bark, as formerly. We use the Fir Bark as it comes from the mill for all mature plants. For seedlings we screen out the coarse and very fine grades.

We use 10 pounds of Dolomite lime to one cubic yard of Fir Bark which brings the PH up to about 5.9. We feed every other watering with Ammonium Nitrate (33.5% Nitrogen), one teaspoonful to a gallon of water, or 8 to 50 gallons.

An analysis is taken about every other month and during the past six months all we have had to add has been Nitrogen. The PH remains around 5.9. Fir Bark has a high Phosphate and Potassium content, but is low in Nitrogen and Calcium.

Fir Bark costs less than most other materials and is less expensive to use because potting and watering are easier and faster.

The big question is — How long will Fir Bark last before breaking down? Will it replace Osmunda — will the plants continue to thrive in years to come as they have thus far? Only time will tell.

ORCHID SUPPLIES

	Cleaned and Cut	Uncut
OSMUNDA —Brown. Best Quality		
Carton	\$.75	
1/2 Gunny Sack	2.86	\$ 2.60
Gunny Sack	5.20	4.16
Bale (Approx. 60#)		15.60
10 Bales or more — Per Bale		13.50

FIR BARK

Plain — Gunny Sack	\$1.50
Sterilized. Dolomite Lime Added. Gunny Sack	1.75

ARM-ROY CYMBIDIUM MIXTURE

Best growing medium for Cymbidiums.	
Carton	\$.75
Gunny Sack	3.00

FERTILIZERS. Water Soluble.

Fine for all Orchids and House Plants.	
Hyponex—1 Pound Can.	\$1.00
Folium—1 Pound Can.	1.25
Instant Vigoro—8 Ounce Can.	.80
Ammonium Nitrate (Use with Fir Bark). 1#	.25
(Nitrogen 33.5%)	

INSECTICIDE. All Purpose.

Ortho MALATHION Spray. 4 Ounce Bottle.	\$1.00
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LABELS, CELEX (Celluloid).	Per 25	Per 100
No. 16—4"x3/4"—Copper wires	\$.90	\$3.30
No. 17—5"x1"—Copper wires	1.25	4.50
No. 22—5"x3/4"—Pot labels. Pointed	1.25	4.50
PERMATAG Aluminum Labels—Packet of 24.....	25c	
EVERLAST Aluminum Labels—Packet of 50.....	69c	

POTTING STICKS. Aluminum—Plastic Handles.

Correct shape for efficient use.

Large — 12" long.	Each	\$2.75
Small — 9" long.	Each	2.25

STAKES —Galvanized. 3/8" Diameter.	Bundle of 25
6 or 8"	\$.25
10 or 12"	.50
14, 16 or 18"	.75

REFERENCE BOOKS

	Postpaid
Home Orchid Growing. Rebecca T. Northen	\$6.50
Orchids are Easy to Grow. Logan and Cosper	6.00
Orchids as House Plants. Rebecca T. Northen	3.50
ABC of Orchid Growing. John V. Watkins	3.00
Your First Orchids and How to Grow Them.	1.25

Los Angeles purchasers include 4% Sales Tax. Other California Areas 3%.
Include postage if shipment by parcel post. We will refund any excess.

ARMACOST & ROYSTON, INC.

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CONDITIONS OF SALE

Payment should accompany order unless credit has been established.

Claims for damaged shipments must be filed immediately with the carrier by the Consignee. We make every effort to pack carefully, and our responsibility ends when the shipment is accepted by the carrier.

All shipments will go out via Railway Express, express charges collect, unless we are instructed otherwise. Please state your preference as to whether you wish your order shipped in or out of pot.

Foreign shipments will be shipped via Air Express out of clay pots unless we are instructed otherwise. Shipping Charges must be Prepaid and should accompany the order. On the authority of your local plant quarantine station, please advise us if there are any unusual requirements pertaining to the shipment of plants into your territory or country.

Hawaiian purchasers are requested to include with their order a copy of their import permit. This permit may be obtained from the Board of Commissioners of Agriculture and Forestry, Honolulu.

Sales Tax will be added to orders being shipped to residents of California unless we have on file a signed State Resale Certificate.

Plants are offered strictly subject to prior sale.

Prices subject to change without notice.

It will be readily understood that it is impossible to keep Orchid Plants stationary with regard to pot size while they are cataloged. Potting must be done as it becomes necessary. Because of this we shall substitute sizes of plants in filling orders unless we are specifically instructed not to do so. We suggest your making a second choice in the event we are unable to supply your first choice.

Arm Roy

